

NRSE Series
SMD Shielded Tiny Power Inductor
Size 4012



CHARACTERISTICS

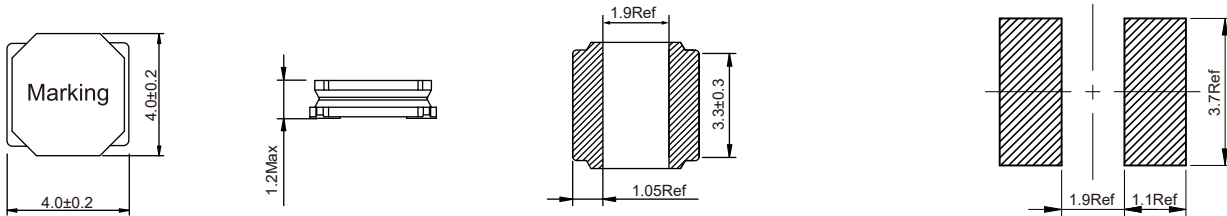
- Magnetic resin for higher current and semi-magnetically shielded
- Quantity: 4500pcs

APPLICATION

- DC/DC converter
- LC filter

Dimensions: [mm]

Land Pattern: [mm]



Electrical Properties:

Part No	Inductance @ 1MHz/1V (μH)	Tolerance	Temperature Rise Current Typ. (A)	Temperature Rise Current Max. (A)	Saturation Current Typ. (A)	Saturation Current Max. (A)	DC Resistance Typ. (Ω)	DC Resistance Max. (Ω)
NRSE4012-R24N	0.24	±30%	3.30	2.90	5.60	4.80	0.020	0.025
NRSE4012-R47N	0.47	±30%	2.80	2.40	4.50	3.90	0.031	0.040
NRSE4012-1R0N	1.00	±30%	2.30	2.00	3.00	2.80	0.042	0.055
NRSE4012-1R5N	1.50	±30%	2.00	1.80	2.35	2.20	0.051	0.065
NRSE4012-2R2M	2.20	±20%	1.90	1.32	2.00	1.76	0.075	0.100
NRSE4012-3R3M	3.30	±20%	1.90	1.32	1.65	1.35	0.075	0.100
NRSE4012-4R7M	4.70	±20%	1.40	1.00	1.50	1.15	0.125	0.163
NRSE4012-5R6M	5.60	±20%	1.20	1.00	1.60	1.00	0.150	0.185
NRSE4012-6R8M	6.80	±20%	1.10	0.85	1.30	1.15	0.175	0.228
NRSE4012-100M	10.0	±20%	1.00	0.80	0.95	0.85	0.180	0.234
NRSE4012-150M	15.0	±20%	0.80	0.65	0.80	0.68	0.310	0.400
NRSE4012-180M	18.0	±20%	0.80	0.55	0.75	0.60	0.430	0.550
NRSE4012-220M	22.0	±20%	0.75	0.49	0.70	0.50	0.530	0.690
NRSE4012-330M	33.0	±20%	0.52	0.42	0.60	0.50	0.780	1.000
NRSE4012-470M	47.0	±20%	0.50	0.37	0.45	0.35	1.100	1.430

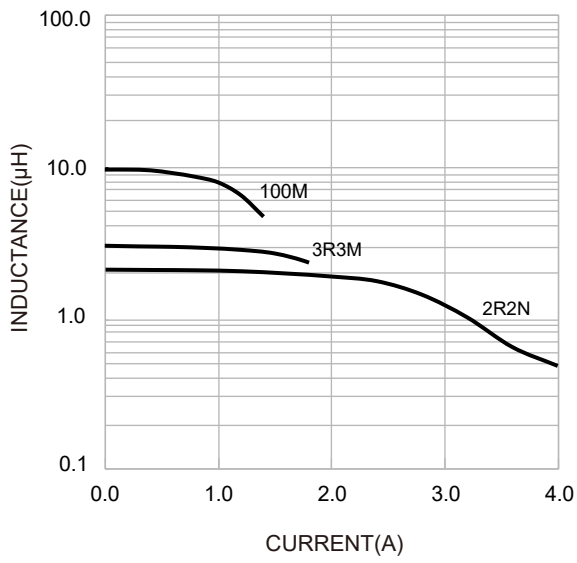
Operating temperature : -40 C ~ +125 C

Temperature rise current: the actual value of DC current when the temperature rise is ΔT40 C

Saturation Current that will cause initial inductance to drop approximately 30%

Typical Electrical Characteristics:

Inductance VS. Current Characteristics:



Temperature Rise VS. Current Characteristics:

